

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/30135

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61M5/14 A61M5/168

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 836 859 A (NISSHO KK) 22 April 1998 (1998-04-22)	1-3, 11, 14-16, 24, 25
Y	page 3, line 26 -page 4, line 38; figures 1-5	4-10, 12, 13, 17-23, 26-32
Y	WO 81 02980 A (BAXTER TRAVENOL LAB) 29 October 1981 (1981-10-29)  page 7, line 27 -page 9, line 18; figures 1-6  -/-	4-10, 17-23, 26-32

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

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Date of the actual completion of the international search

23 January 2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 086 715 A (AUBEX CORP) 28 March 2001 (2001-03-28) paragraph '0047! - paragraph '0052!; figures 7-12 paragraph '0057! - paragraph '0062! -----	1-32
Y	DE 40 36 509 C (HOLTHAUS ROLF) 6 February 1992 (1992-02-06)	12, 13
A	column 3, line 22 - column 4, line 65; figures 1-4	5-10, 18-23, 27-32
A	----- AU 492 047 B (DERBY PRODUCTS PTY. LTD.) 20 April 1978 (1978-04-20)  page 4, line 6 - line 9; figures 2,3 -----	5-10, 18-23, 27-32

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/30135

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0836859	A	22-04-1998	JP 3269073 B2	25-03-2002
			JP 10113386 A	06-05-1998
			DE 69718872 D1	13-03-2003
			DE 69718872 T2	18-06-2003
			EP 1254676 A1	06-11-2002
			EP 0836859 A2	22-04-1998
			US 5925023 A	20-07-1999
WO 8102980	A	29-10-1981	AU 7159481 A	10-11-1981
			BE 888390 A1	31-07-1981
			BR 8108315 A	09-03-1982
			CA 1144037 A1	05-04-1983
			EP 0050147 A1	28-04-1982
			IT 1137339 B	10-09-1986
			JP 57500632 T	15-04-1982
			WO 8102980 A1	29-10-1981
			US 4425116 A	10-01-1984
EP 1086715	A	28-03-2001	JP 2001087396 A	03-04-2001
			CN 1288758 A	28-03-2001
			DE 60007048 D1	22-01-2004
			EP 1086715 A2	28-03-2001
			TW 450818 B	21-08-2001
			US 6367502 B1	09-04-2002
DE 4036509	C	06-02-1992	DE 4036509 C1	06-02-1992
AU 492047	B	20-04-1978	AU 492047 B1	20-04-1978